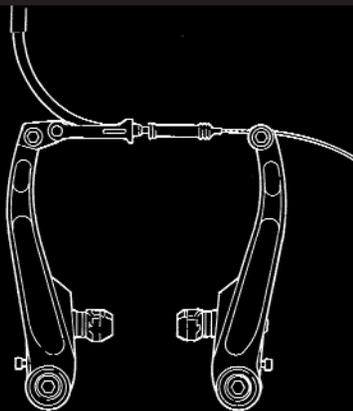




Black Ops™ Research SINGLE DIGIT® ULTIMATE

Installation Instructions



IMPORTANT

Brakes are a safety-critical item on a bicycle. Improper set-up or use of brakes can result in loss of control or an accident, which could lead to a severe injury.

It's your responsibility to learn and understand proper braking techniques. Consult the owner's manual for your bicycle and a professional bike dealer. Practice your riding and braking techniques in a controlled environment prior to aggressive riding.

The effectiveness of braking is dependent on many conditions over which Avid has no control including the speed of the bicycle, type and condition of the riding surface, braking lever force, proper installation and maintenance of brakes, cables, levers, brake pads, the condition of the bike, weight of the rider, proper braking techniques, weather, terrain, and a variety of other factors.

ALWAYS RIDE UNDER CONTROL.

Remember, it takes longer to stop in wet conditions. To reduce the possibility of an accident and minimize trail erosion, you should avoid locking-up your wheels.

1DULT-0202

FRONT BRAKE INSTALLATION

IMPORTANT!

Only levers designated for direct-pull brakes such as the Speed Dial Ultimate, Speed Dial Ti, 7, 5 and AD 3 levers can be used with Single Digit brakes.

Follow these instructions carefully. If you do not understand the instructions, have the installation done by a professional bike mechanic.

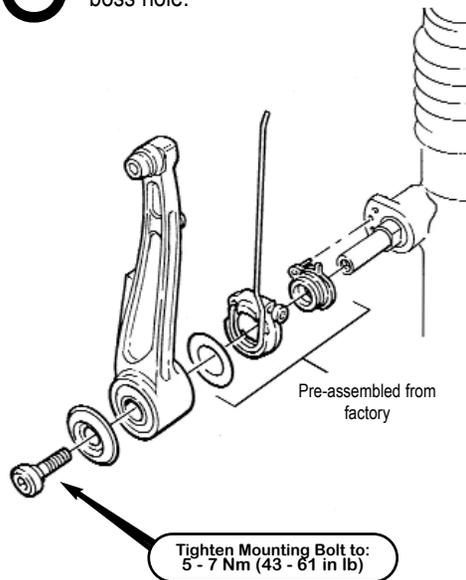


Installation Tools Needed: 3mm and 5 mm hex wrenches, torque wrench and cable cutters.

1

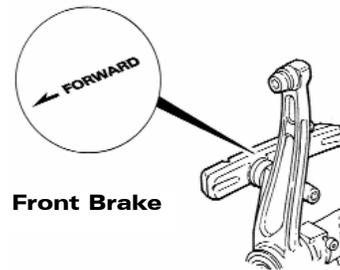
MOUNT THE BRAKE

Brake bosses must be clean and free of debris. Grease bosses lightly. Align the brake pin with the center brake boss hole.

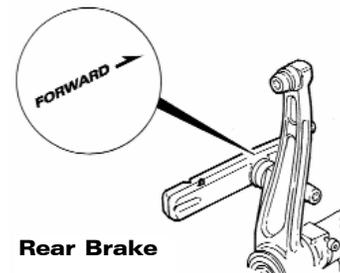


2
A

INSTALL THE PADS: Step A
IMPORTANT! Orient the pads correctly for front or rear brake. The direction arrows on the top of the pad holder must point toward the front of the bike.



Front Brake

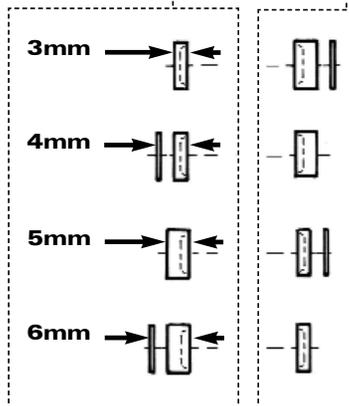
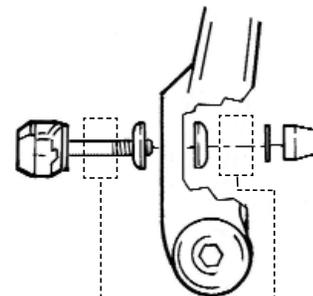
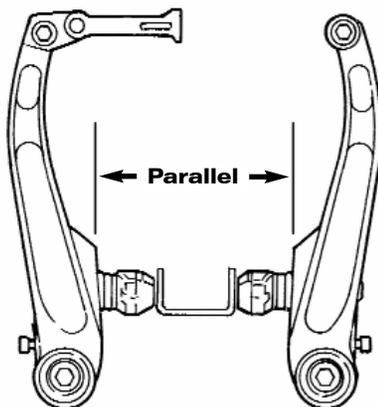


Rear Brake

2
B

INSTALL THE PADS: Step B

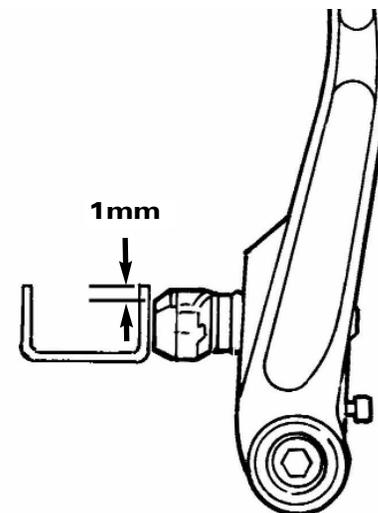
Install the brake pad spacing washers. Install the washers so that the brake arms are approximately parallel to each other when the brake pads are on the rim. There are four spacing options: 3mm, 4mm, 5mm and 6mm. See diagram at right.



3

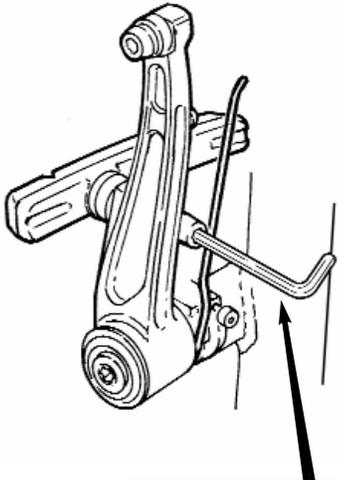
ALIGN THE PADS

Next, adjust the brake pad to be parallel with the rim. The top of pad should be at 1mm below the top of the rim.



4**TIGHTEN THE PADS**

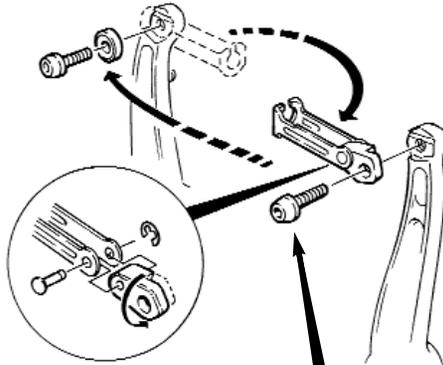
With the brake pads in the proper position, tighten the fixing nut to the specified torque.



Tighten Pad Fixing Nut to:
6 - 8 Nm (52 - 69 in lb)

5**REVERSE THE LINK (Optional)**

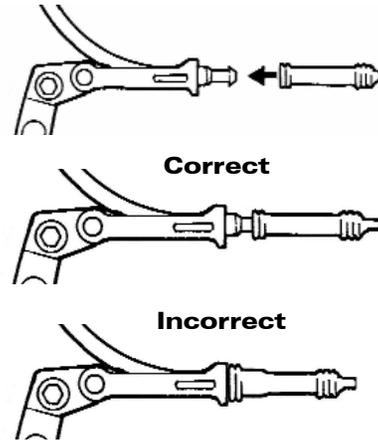
For right-hand cable routing, move the link and link anchor to the right hand arm. Remove the E-clip and pin and flip the link 180 degrees. Reinstall the pin and E-clip. Tighten the link anchor bolt to the specified torque.



Tighten Link Anchor Bolt to:
6 - 8 Nm (52 - 69 in lb)

6**INSTALL THE BOOT**

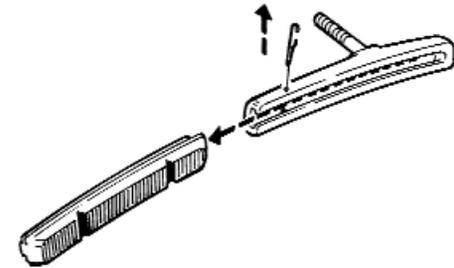
Insert boot over the first lip of the noodle tip. Do not push the boot all the way up to the link. The Avid noodle & boot are designed to be removed from the link without having to disengage the boot.

**Correct****Incorrect**

NOTE: Avid Single Digit brakes are designed to use the supplied Avid noodle and boot. The use of any other noodle or boot could cause brake failure and lead to serious injury. Doing so will void the warranty.

RW2 Pad Replacement

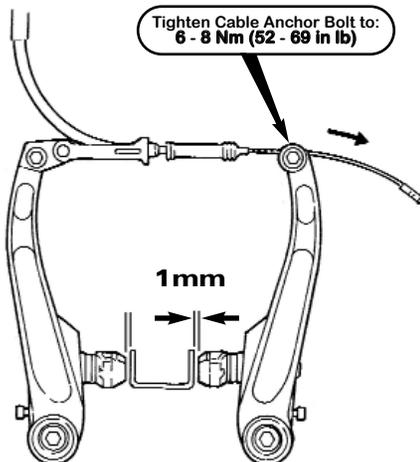
1. To ensure proper fit, always use Avid Rim Wrangler 2® (RW2) replacement pads.
2. Remove the locking pin from the holder and slide the old insert out. Make sure the holder is free of any debris.



3. Slide the new brake pad in ALL THE WAY until it is fully aligned with the forward edge of the brake pad holder. Push the locking pin in until it is fully engaged.

7**ANCHOR THE CABLE**

Pull the cable tight enough to have clearance of 1 - 1.5mm, per side, between the rim and the brake pads. Tighten the cable anchor bolt to the specified torque.

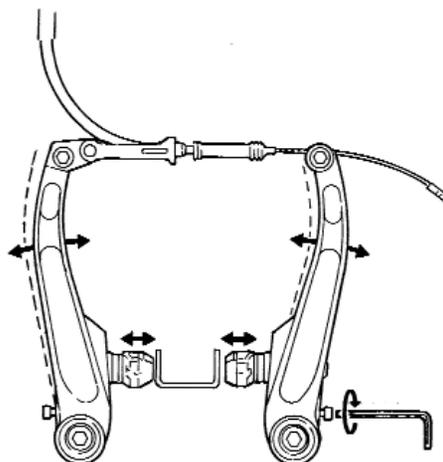


Tighten Cable Anchor Bolt to:
6 - 8 Nm (52 - 69 in lb)

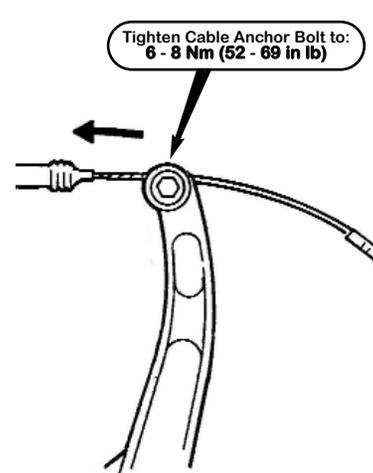
1mm

8**CENTER THE BRAKE**

Center the brake by adjusting the spring tension adjusters. Turn each spring adjuster screw with a 3mm hex wrench clockwise to increase spring tension.

**9****TEST THE SYSTEM**

With two fingers, squeeze the brake lever firmly about a dozen times to ensure the cables are seated properly and operate smoothly. Make sure the cable has not slipped at the cable anchor bolt. Re-torque if necessary.



Tighten Cable Anchor Bolt to:
6 - 8 Nm (52 - 69 in lb)

LIMITED WARRANTY

Avid, LLC (Avid) warrants to the original consumer purchaser of every Avid product that the product shall be free from defects in workmanship and materials for a period of one (1) year from the original date of purchase. The sole remedy under this warranty is limited to, at Avid's sole discretion, repair or replacement of the defective product. Labor and shipping costs are excluded from this warranty. This warranty only applies to the original consumer purchaser and is not transferable.

THIS WARRANTY DOES NOT COVER normal wear and tear (including, without limitation, brake pad wear), or defects or failures that are related in any way to improper installation or follow-up maintenance, accident, abuse or neglect (including, without limitation, thread damage). Since Avid has no control over the product's final use, Avid also does not warrant the suitability of the product for specific riders and/or uses.

IN NO EVENT SHALL AVID BE RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER BASED ON CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT OR PRODUCTS LIABILITY, INCLUDING WITHOUT LIMITATION, PERSONAL INJURY DAMAGES, PROPERTY DAMAGE OR ECONOMIC LOSSES. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

AVID MAKES NO OTHER EXPRESS WARRANTIES. ALL IMPLIED WARRANTIES, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE ONE (1) YEAR DURATION OF THIS WARRANTY. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Claims under this warranty may be initiated with any Avid dealer. If this is not practical, you may contact Avid in writing at the address listed below. Dated proof of purchase must accompany all warranty claims.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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